

Declass Review by NIMA / DoD

April 12, 1964

Task 1: Concerning programs under contract to the Contracting Agency or being pursued on a series of contracts.

Statement of Work:

Make visitations to vendors on attached list who are under contract to the Contracting Agency to investigate technical/production difficulties with which the vendor may be confronted, and to resolve said difficulties on-the-scene, or make recommendations to the Technical Representative of the Contracting Officer for the resolution thereof. In either case, the Contractor is to furnish a written report of the visitation; said report to contain a statement of the difficulties, the immediate corrective action taken, and/or the recommendations of the Contractor for the resolution of the difficulties.

ILLEGIB

Visit the Technical Representative in Washington, D.C. from time to time for the purpose of orientation and and briefings as deemed necessary by the Technical Representative of the Contracting Officer, on pertinent technical aspects of contracts.

List of Vendors: The Technical Representative of the Contracting Officer may revise the list of vendors from time to time.

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| 25X1A | 1. [REDACTED]
"Application of the Linear Phasolver to sub-micron measuring techniques and equipment." |
| 25X1A | 2. [REDACTED]
"Application of Phosphor Screens to projection viewing techniques and equipment." |
| 25X1A | 3. [REDACTED]
"Research program on application of liquid/air bearings to the HTA/5 and related equipment, to film processing utilizing the HTA/5 and related equipment." |
| 25X1A | 4. [REDACTED]
"Solid state counters for measuring engines." |

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Task 2: Concerning programs for which new sources of capabilities are needed.

Statement of Work:

Visit commercial vendors for the purpose of investigating and evaluating the vendor's facilities and personnel as possible procurement sources for the Contracting Agency in relation to the programs on the attached list.. Each such visit to be followed by the Contractor's written assessment of the vendors visited.

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Visit the technical Representative in Washington, D.C. from time to time for the purpose of orientation and briefings, as deemed necessary by the Technical Representative of the Contracting Officer, on pertinent technical aspects of the proposed programs and proposed contracts.

Perform services of a technical advisory nature from time to time as may be requested by the Technical Representative of the Contracting Officer.

List of Vendors: Programs: The Technical Representative of the Contracting Officer may revise the list of programs from time to time.

1. Design and production of Special Purpose Microscopes and correlative measuring devices.
2. Automatic photo interpretation or target identification.
3. Automatic Stereo Registration
4. New films or new processing methods for ~~el~~ present films.

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Task 3: Study utilization of tape recording of inertial navigation outputs of "O" System and make recommendations for further usage.

Statement of Work:

Review the form of the recording of the INS output on the original tape, the error content of the recorded data, the error content of the recording process and the frequency or point density of the data. Review the chronological sequence of events in reproduction of a computer tape from the original. Estimate elapsed time up to the point at which the computer tape is available to the NPIC computer. Examine possibilities of reducing elapsed time.

Review present computer programming considerations and examine the possibilities of initiating preparation of programs and trials of the utilization system during the development of the "O" acquisition systems.

Review the anticipated total number of position point plots and the rapidity of plotting by the [REDACTED] machine driven by the computer commands, and determine the estimated total elapsed time for preparation of ground track plots. Examine the possibility of including ground coverage plots as part of the ground track plots and of recording these plots on maps, automatically by the [REDACTED] machine.

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Examine the possibility of preparing mission strip maps from mission planning data. Examine the possibility of using these strip maps on the [REDACTED] machine for recording the mission ground track and coverage. Investigate the techniques by which the Interpreters will use the strip maps and the annotated which would be most useful (such as frame numbers) on the strip maps. Investigate the possibility of automatically recording the data on the ground track and coverage plots.

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Investigate potential usage of the mission strip map by [REDACTED] group for recording cloud cover, errors in track and coverage, annotations of mission data, and subsequent publication of annotated strip maps and distribution to user groups.

Submit a report of the findings and recommendations.

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Task 4: Preliminary Study of the application of the autocorrelation function and its power spectrum to the establishment of an objective criterion of image quality.

Statement of Work:

Review the fundamental theory in relation to this application and determine the basic equations. Apply the theory of apertures to determine the probable scanning aperture size required. Analyze the optical limitations and possible trade offs between aperture size, scanning angle, focal length and relative aperture of the optics. Evaluate possible physical arrangements of equipment for automatically accomplishing the scanning, computation and display of results. Evaluate the meaningfulness of the output as an objective criterion of image quality.

Submit a report of the preliminary study.

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